

9

S

ر د

>

ഗ

ſĿ,

ပ

ഗ

·

1/38

120 180 240 300 L D CGCTGCTCCCGGGTCCTCGCGAGGCGCCCGCCGCCGCCGCCGCCTTCGAGTCCGGACTCG AGGAGCAGTTACGGTCTGTGTCCAGTGTAGATGAACTCATGACTGTACTCTACCCAGAAT TCCTCGTCAATGCCAGACACAGGTCACATCTACTTGAGTACTGACATGAGATGGGTCTTA ATTGGAAAATGTACAAGTGTCAGCTAAGGAAAGGAGGCTGGCAACATAACAGAGAACAGG TAACCTTTTACATGTTCACAGTCGATTCCTTTCCTCCGACCGTTGTATTGTCTCTTGTCC u Ш > ſ. K 工 ۲ æ Ö Æ, Σ 1 ۲ ပ A A A Ŋ ы Б D E × ල` J. S V Д Ø æ ы Ś ر ص Ω ĸ > Д ш ഗ ပ L R Ø 3 61 181

FIG. 1A

CCAACCTCAACTCAAGGACAGAGAGAGACTATAAAATTTGCTGCAGCACATTATAATACAG



2/38

301	GGTTGGAGTTGAGTTCCTGTCTCTGATATTTTAAACGACGTCGTGTAATATTATGTC N L N S R T E E T I K F A A A H Y N T E -	0 0 0 1
361	AGATCTTGAAAAGTATTGATAATGAGTGGAGAAAGACTCAATGCATGC	420
))		. 1
	GTATAGATGTGGGGAAGGAGTTTGGAGTCGCGACAAACACCTTCTTTAAAACCTCCATGTG	480
T 7 B	CATATCTACACCCCTTCC	
ر د د	TGTCCGTCTACAGATGTGGGGGTTGCTGCAATAGTGAGGGGGCTGCAGTGCATGAACACCA	540
ה ס יי	ACAGGCAGAT S V Y	ı
	GCACGAGCTACCTCAGCAAGACGTTATTTGAAATTACAGTGCCTCTCTCT	900
-ਜ ``	CGTGCTCGAT T S Y	ı
601	AACCAGTAACAATCAGTTTTGCCAATCACACTTCCTGCCGATGCATGTCTAAACTGGATG	960
H D D	TTGGTCATTGTTAGTCAAAACGGTT	, ,



3/38

,	TTTACAGACAAGTTCATTCCATTATTAGACGTTCCCTGCCAGCAACACTACCACAGTGTC	720
- Q Q	AAATGTCTGTTCAAGGTAATAATCTGCAAGGGACGGTCGTTGTGATGTGTCACAG	1
(AGGCAGCGAACAAGACCTGCCCCACCAATTACATGTGGAATAATCACATCTGCAGATGCC	780
721	TCCGTCGCTTGTTCTGGACGGGGTGGTTAATGTACACCTTATTAGTGTAGACGTCTACGG) }
6	TGGCTCAGGAAGATTTTATGTTTTCCTCGGATGCTGGAGATGACTCAACAGATGGATTCC	840
781	ACCGAGTCCTTCTAAAATACAAAAGGAGCCTACGACCTCTACTGAGTTGTCTACCTAAGGAGCCTACGACCTCTACTGAGTTGTCTACCTAAGGAGCCTACGACCTCTACTGAGTTGTCTACCTAAGGAGCCTACGACCTCTACTGAGTTGTCTACCTAAGGAGCCTACGACCTCTACTGAGTTGTCTACCTAAGGAGCCTACGACCTCTACTGAGTTGTCTACCTAAGGAGCCTACGACCTCTACTGAGTTGTCTACTAAAGGAGCCTAAGGAGCCTACGACCTCTACTGAGGAGCCTAAGGAGCCTAAGGAGCCTAACGAAAAGGAGCCTAACGAACG) 1
	ATGACATCTGTGGACCAAACAAGGAGCTGGATGAAGAGACCTGTCTGT	900
ન જ સ	TACTGTAGACACCTGGTTTGTTCCTCGACCTACTTCTCTGGACAGTCACAGACGTCTC D I C G P N K E L D E E T C Q C V C R A	
	CGGGGCTTCGGCCTGCCAGCTGTGGACCCCCACAAGAACTAGACAGAAAAAAAA	096
ν 1	GCCCCGAAGCCGGACGGTCACCTGGGGTGTTTCTTGATCTGTCTTTGAGTACGGTCA G L R P A S C G P H K E L D R N S C Q C))
5	GTGTCTGTAAAAACAAACTCTTCCCCAGCCAATGTGGGGGCCAACCGAGAATTTGATGAAA	1020
7 O F	CACAGACATTTTTGTTTGAGAGGGGTCGGTTACACCCCGGTTGGCTCTTAAACTACTTT) } }



1	
Ζ,	
ப	
_	
14	
ы	
ĸ	
Z.	
æ	
ပ	
ပ	
Ø	
Ŋ	
Д	
[L	
П	
×	
z	
노	
O	
>	

(1080	. •	ı
ğ	+	ij	×
TGG.	1	ACC.	ပ
ICC	1	AGG	Д
AAA	1 +	TTT.	Z
CCL	1	GGA'	IJ
TGTGTATGTAAAAGAACCTGCCCCAGAAATCAACCCCCTAAATCCTGGAA	+	A CACATACATTTTCTTGGACGGGTCTTTAGTTGGGGGATTTAGGACCTT	C V C K R T C P R N Q P L N P G K-
TCA	i	AGT	ø
AAA	+	TTT	Z
CAG	1	GTC	ĸ
ညည	 	GGG	ρ,
CTG	1+1	GAC	ပ
AAC	1	TTG	۲
AAG	1	TIC	PK
TAA	1	ATT	×
ATG	1	TAC	ပ
TGT	1	ACA	>
GTG	i	CAC	U
CCA	+	CO.	
ATG(i	I A C	ט
ACACATGCCAGT(; ; ;	TGTGTACGGTCA	} !
•	1021	i	

•			
• .	_		<u>'</u>
ပ္ပ	+	8	щ
GTI	1	CAA	Ŀ
GAA	1 1	CTT	×
AAA	1	PT	×
AGG.	1	ľČĆ.	Ö
AAA	i 1	PTT.	THE MERKER FH
GTT	1	CAA	J
CTT	+	GAA(H
ATG	1	TAC	U
GAA	!!	CII	×
ACA	+	TGT	С
TCC	1 !	AGG	Δ.
AAG	1	TTC	U,
AGA	1+	TCT	Į.
TAC	 	ATG	E
ATG	1 1 1	TAC	ر
TGA	 	ACT	E
CTG	+	GAC	ر
PGC(1	ACG(A
aatgtgcctgtgaatgtacagaaagtccacagaaatgcttgttaaaaggaaagaagttcc	1	TTACACGGACACTTACATGTCTTTCAGGTGTCTTTACGAACAATTTTCCTTTTTCAAGG	
7	2	!	

(1200		1
ິບ	+	ტ	Д
ATGCAGCTGTTACAGACGCCCATGTACGAACCGCCAGAAGGCTTGTGAGC	+	TACGTCGACAATGTCTGCCGGTACATGCTTGGCGGTCTTCCGAACACTCG	CSCYRRPCTNROKACEP-
TTG'	1	AAC.	ပ
000	+	SCG	K
GAA	 	CTT	×
CCA	1	GGT	0
מכפ	1	GGC	ĸ
GAA	+	CTI	Z
TAC	1	ATG	H
ATG	1 1 1	TAC	O
CC	1+1	CGG	Д
ACG	1	TGC	ĸ
CAG	i	GTC	ĸ
TTA	 +	AAT	Ħ
CTG	 	GAC	U
CAG	1	GTC	ഗ
	•	TAC	U
AAC	+	TTTGT/	۲
CCAA	1		Ø
ACCA(1	TGGTG	X
	141		

ر ن	+ 1260	ڻ ن	V C F V C R C V P S Y W Q R P Q -
S.C.A	1	GGT	Д,
AGA	1	rtcī	æ
SCA		CGT	0
F F	+	TATATCACTTCTTCACACACACAGGGAAGTATAACCGTTTCTGGTG	3
ATATAGTGAAGAAGTGTGTCGTTGTGTCCCTTCATATTGGCAAAGACCAC	1	rat?	>
rrc,	i 1	AAG:	S
CCC	+	3GG1	Д
TGT	1	ACA(>
TTG	1	AAC	C
TCG	+	AGC	ø
GTG	1	CAC	ر
AGI	l l	TCA	>
AGA	+	TCT	Ĺ
TGA	i	ACT	Ĺ
TAG	1	ATC	ប
ATA		TAT	>
TTC	+	AAG	U
ATT	1 1 1	CCTAAA	Ĺ
CAGGATTTTCA	1 1	GTCC'	C
	201		

AAATGAGCTAAGATTGTACTGTTTTCCAGTTCATCGATTTTTCTATTATGGAAAACTGTGT

FIG. 1D



5/38

1261	TTTACTCGATTCTAACATGACAAAAGGTCAAGTAGCTAAAAGATAATACCTTTTGACACA M S *	1320
, (-	1380
1321	ACGGTGTCATCTTG AAAGTCTGTCTTTC	
1381	-	1440
7	CAA	1500
T 75 75 T	GTTTCCGGAGAACA')) (
15.01	TTGTGATTTCTTTAAAAGAATGACTATATAATTTTATTTCCACTAAAAATATTGTTTCTGC	1560
700	AACACTAAAGAA	
1561	ATTCATTTTATAGCAACAATTGGTAAAACTCACTGTGATCAATATTTTATATCAT	1620
1 0 1	TAAGTAAAAATATCGTTGTTGATTAACCATTTTGAGTGACACTAGTTATAAAAATA	
1621	GCAAAATATGTTTAAAATAAA	
7 7 7	CGTTTTATACAAATTTTATTTTTTTTTTAACATAAATATTTTTT	

F1G. 1E